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ASTM TEST REPORT SUMMARY

RENDERED TO:
Edgetech I.G. Inc.
800 Cochran Avenue
Cambridge, Ohio 43725

PRODUCT:
ULTRAGLAZE SSG4400 1/4" THICK SILICONE STRUCTURAL BEAD
AND 1/2" GE IGS3723 SILICONE SECONDARY SEAL

TITLE	SUMMARY OF RESULTS
Positive Design Pressure with Deflection Readings	5750 pa (120.0 psf)
Negative Design Pressure with Deflection Readings	5750 pa (120.0 psf)
Negative Design Pressure without Deflection Readings	7190 pa (150.0 psf)

Test Completion Date: 05/06/2008

Reference Must be made to QTI Report Number S2008-304 dated 05/08/2008 for complete test sample description and data.

For Quality Testing, Inc:

Jeffrey M. Douglas
Structural & Field Test Manager



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ASTM UNIFORM LOAD DEFLECTION AND STRUCTURAL PERFORMANCE TEST REPORT

S2008-304

REPORT TO: EDGETECH I.G. INC.
800 COCHRAN AVENUE
CAMBRIDGE, OHIO 43725

ORIGINAL REPORT NUMBER: S2008-304
ORIGINAL REPORT DATE: 05/08/2008

PRODUCT: ULTRAGLAZE SSG4400 1/4"
THICK SILICONE STRUCTURAL
BEAD AND 1/2" GE IGS3723
SILICONE SECONDARY SEAL .



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REPORT TO: Edgetech I.G. Inc.
800 Cochran Avenue
Cambridge, Ohio 43725

TEST DATE: 05/06/2008

SPECIFICATION: ASTM E330-02
Test Method for Uniform Load Deflection and Structural Performance of Exterior Windows, Curtain Walls and Doors by Cyclic Static Air Pressure Difference.

TEST PURPOSE: To check the structural integrity of the I.G. Secondary Sealant and the Glazing Sealant.

DESCRIPTION OF SAMPLE TESTED

SEALANT MODEL/TYPE:

GLAZING SEALANT: 6 mm (1/4") thick Ultraglaze SSG4400 Silicone Structural Bead.
I.G. SEALANT: 13 mm (1/2") deep GE IGS3723 Silicone Secondary Seal.

CONFIGURATION:

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FRAME SIZE:

2553 mm (110 1/2") wide by 1645 mm (64 3/4") high.

I.G. UNIT SIZE:

2464 mm (97") wide by 1549 mm (61") high.

FRAME TYPE:

Extruded aluminum.

JOINT CONSTRUCTION:

All frame corners were butt joined and screw-connected.

GLAZING COMPONENTS:

OVERALL: 25 mm (1") nominal.
GLASS THICKNESS: Two panes of 6.0 mm nominal tempered.
SPACER TYPE/SIZE: 13 mm (1/2") nominal silicone foam - Edgetech Triseal.

GLAZING SYSTEM:

The glass was, bedded onto the aluminum framing members against the 6 mm (1/4") thick Ultraglaze SSG4400 Silicone Structural Bead. No exterior retaining stops were utilized.

TEST RESULTS

Deflection Gage Number	Deflection Gage Location
1	Upper Right Corner of I.G. Unit (String Transducer).
2	Upper Midpoint of I.G. Unit (String Transducer).
3	Upper Left Corner of I.G. Unit (String Transducer).
4	Lower Right Corner of I.G. Unit (String Transducer).
5	Lower Midpoint of I.G. Unit (String Transducer).
6	Lower Left Corner of I.G. Unit (String Transducer).
7	Upper Interior Midpoint of Framing Member (Dial Indicator)
8	Lower Interior Midpoint of Framing Member (Dial Indicator)

NEGATIVE TEST PRESSURES AND INDIVIDUAL GAGE READINGS								
Test Pressure	Gage #1 mm (in.)	Gage #2 mm (in.)	Gage #3 mm (in.)	Gage #4 mm (in.)	Gage #5 mm (in.)	Gage #6 mm (in.)	Gage #7 mm (in.)	Gage #8 mm (in.)
15 psf	0.08 (0.003")	0.94 (0.037)	0.25 (0.010)	0.05 (0.002)	0.53 (0.021)	0.03 (0.001)	N/A	N/A
30 psf	0.36 (0.014)	4.83 (0.190)	1.12 (0.044)	0.20 (0.008)	1.80 (0.071)	0.03 (0.001)	N/A	N/A
45 psf	0.10 (0.004)	3.12 (0.123)	2.72 (0.107)	0.15 (0.006)	0.43 (0.017)	0.05 (0.002)	N/A	N/A
60 psf	0.30 (0.012)	4.22 (0.166)	0.079 (0.031)	0.05 (0.002)	0.91 (0.036)	0.10 (0.004)	6.86 (.270)	5.59 (.220)
75 psf	0.13 (0.005)	1.85 (0.073)	0.23 (0.009)	0.15 (0.006)	1.68 (0.066)	0 (0)	8.13 (.320)	7.11 (.280)
90 psf	0.13 (0.005)	4.06 (0.160)	0.69 (0.027)	0.30 (0.012)	3.66 (0.144)	0 (0)	9.40 (.370)	7.87 (.310)
105 psf	0.28 (0.011)	2.72 (0.107)	0.41 (0.016)	0 (0)	1.60 (0.063)	0.15 (0.006)	9.40 (3.70)	2.54 (.100)
120 psf	0.08 (0.003)	6.02 (0.237)	1.73 (0.068)	0 (0)	3.43 (0.135)	0.33 (0.013)	15.75 (.620)	2.54 (.100)

All above loads were maintained for a period of 10 seconds. Upon completion of all of the above listed test pressures the deflection measuring devices were removed from the test sample and the test pressure was increased to 155 psf and maintained for a period of one minute. No damage occurred during this test pressure.

TEST RESULTS (CONTINUED)

Deflection Gage Number	Deflection Gage Location
1	Upper Right Corner of I.G. Unit (String Transducer).
2	Upper Midpoint of I.G. Unit (String Transducer).
3	Upper Left Corner of I.G. Unit (String Transducer).
4	Lower Right Corner of I.G. Unit (String Transducer).
5	Lower Midpoint of I.G. Unit (String Transducer).
6	Lower Left Corner of I.G. Unit (String Transducer).
7	Upper Interior Midpoint of Framing Member (Dial Indicator)
8	Lower Interior Midpoint of Framing Member (Dial Indicator)

POSITIVE TEST PRESSURES AND INDIVIDUAL GAGE READINGS								
Test Pressure	Gage #1 mm (in.)	Gage #2 mm (in.)	Gage #3 mm (in.)	Gage #4 mm (in.)	Gage #5 mm (in.)	Gage #6 mm (in.)	Gage #7 mm (in.)	Gage #8 mm (in.)
15 psf	0.03 (0.001)	0.28 (0.011)	0.13 (0.005)	0.05 (0.002)	0.13 (0.005)	0.03 (0.001)	N/A	N/A
30 psf	0.20 (0.008)	1.83 (0.072)	0.28 (0.011)	0.08 (0.003)	0.79 (0.031)	0.03 (0.001)	N/A	N/A
45 psf	0.84 (0.033)	1.47 (0.058)	5.05 (0.199)	0.20 (0.008)	1.47 (0.058)	0.10 (0.004)	N/A	N/A
60 psf	0.91 (0.036)	3.00 (0.118)	0.23 (0.009)	0 (0)	1.52 (0.060)	0.10 (0.004)	9.40 (0.370)	0 (0)
75 psf	0.33 (0.013)	1.50 (0.059)	7.32 (0.288)	0.10 (0.004)	1.24 (0.049)	0.03 (0.001)	N/A	N/A
90 psf	3.91 (0.154)	6.96 (0.274)	0.51 (0.020)	0 (0)	3.38 (0.133)	0.23 (0.009)	14.61 (0.575)	4.57 (0.180)
105 psf	2.74 (0.108)	4.27 (0.168)	0.41 (0.016)	0 (0)	2.08 (0.082)	0.20 (0.008)	17.27 (0.680)	2.29 (0.090)
120 psf	4.47 (0.176)	7.72 (0.304)	0.91 (0.036)	0.05 (0.002)	3.53 (0.139)	0.28 (0.011)	17.78 (0.700)	3.86 (0.152)

The results were secured by using the designated test methods and they indicate compliance with the performance requirements of the referenced specification. A copy of this report has been forwarded to the Administrator of the Certification Program. This report does not constitute certification of this product, which may only be granted by the Administrator.

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A handwritten signature in black ink, appearing to read 'Jeff Douglas', with a long horizontal flourish extending to the right.

Jeffrey M. Douglas
Structural & Field Test Manager

A handwritten signature in blue ink, appearing to read 'Jim Clarke', with a long horizontal flourish extending to the right.

Jim Clarke
Structural Performance Technician

